## WHAT IS CLAIMED IS:

- 1. A system, comprising:
  - a storage device configured to store a plurality of files; and
- a file system configured to manage access to said storage device, wherein said file system is configured to:

compute a compressed size of at least a portion of a given file; and store an indication of said compressed size in data storage corresponding to said given file.

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2. The system as recited in claim 1, wherein said data storage comprises a named stream, and wherein said file system is further configured to store a compression dictionary corresponding to said at least a portion of said given file in said named stream subsequent to said computing.

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- 3. The system as recited in claim 1, wherein said data storage comprises a named stream, wherein said given file includes a plurality of ordered portions, wherein said file system is further configured to store a respective plurality of compression dictionaries in said named stream, and wherein each said respective compression dictionary corresponds to one of said ordered portions.
- 4. The system as recited in claim 3, wherein said at least a portion of said given file corresponds to a given ordered portion of said given file, and wherein said file system is further configured to:
- suspend computing a compressed size of said given ordered portion of said given file; and
  - subsequent to said suspending, resume computing said compressed size of said given ordered portion of said given file without recomputing a compressed

size of a lower-ordered portion than said given ordered portion of said given file.

- The system as recited in claim 3, wherein a given respective compression
   dictionary corresponding to a higher-ordered portion of said given file includes a given respective compression dictionary corresponding to a lower-ordered portion.
- 6. The system as recited in claim 3, wherein said file system is further configured to:

  detect a write operation to a given ordered portion of said given file;

  in response to detecting said write operation, invalidate the respective compression dictionaries corresponding to said given ordered portion and any higher-ordered portions than said given ordered portion of said given file; and subsequent to said invalidating, recompute a respective compressed size of only said given ordered portion and any higher-ordered portions than said given ordered portion of said given file.
- 7. The system as recited in claim 1, wherein said file system is further configured to:
  store a respective compressed size of each of said plurality of files in a

  corresponding one of a plurality of respective named streams;
  compute a compressed size of a concatenated file resulting from appending a first
  file to a second file; and
  determine a value of a file harmony metric from said compressed size of said
  concatenated file and said stored respective compressed sizes of said first
  file and said second file.
  - 8. A method, comprising: storing a plurality of files;

computing a compressed size of at least a portion of a given file; and storing an indication of said compressed size in data storage corresponding to said given file.

- 5 9. The method as recited in claim 8, wherein said data storage comprises a named stream, and further comprising storing a compression dictionary corresponding to said at least a portion of said given file in said named stream subsequent to said computing.
- 10. The method as recited in claim 8, wherein said data storage comprises a named stream, and further comprising storing a respective plurality of compression dictionaries in said named stream, wherein said given file includes a plurality of ordered portions, and wherein each said respective compression dictionary corresponds to one of said ordered portions.
- 15 11. The method as recited in claim 10, wherein said at least a portion of said given file corresponds to a given ordered portion of said given file, and further comprising: suspending computing a compressed size of said given ordered portion of said given file; and
  - subsequent to said suspending, resuming computing said compressed size of said given ordered portion of said given file without recomputing a compressed size of a lower-ordered portion than said given ordered portion of said given file.
- The method as recited in claim 10, wherein a given respective compression
   dictionary corresponding to a higher-ordered portion of said given file includes a given respective compression dictionary corresponding to a lower-ordered portion.

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13.	The method as recited in claim 10, further comprising:
	detecting a write operation to a given ordered portion of said given file;
	in response to detecting said write operation, invalidating the respective
	compression dictionaries corresponding to said given ordered portion and
	any higher-ordered portions than said given ordered portion of said given
	file; and
	subsequent to said invalidating, recomputing a respective compressed size of onl

subsequent to said invalidating, recomputing a respective compressed size of only said given ordered portion and any higher-ordered portions than said given ordered portion of said given file.

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14. The method as recited in claim 8, further comprising:

storing a respective compressed size of each of said plurality of files in a corresponding one of a plurality of respective named streams;

appending a first file to a second file to yield a concatenated file;

subsequent to said appending, computing a compressed size of said concatenated file; and

determining a value of a file harmony metric from said compressed size of said concatenated file and said stored respective compressed sizes of said first file and said second file.

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15. A computer-accessible medium comprising program instructions, wherein the program instructions are computer-executable to:

store a plurality of files;

compute a compressed size of at least a portion of a given file; and

store an indication of said compressed size in data storage corresponding to said given file.

16. The computer-accessible medium as recited in claim 15, wherein said data storage comprises a named stream, and wherein the program instructions are further computer-executable to store a compression dictionary corresponding to said at least a portion of said given file in said named stream subsequent to said computing.

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- 17. The computer-accessible medium as recited in claim 15, wherein said data storage comprises a named stream, wherein the program instructions are further computer-executable to store a respective plurality of compression dictionaries in said named stream, wherein said given file includes a plurality of ordered portions, and wherein each said respective compression dictionary corresponds to one of said ordered portions.
- 18. The computer-accessible medium as recited in claim 17, wherein said at least a portion of said given file corresponds to a given ordered portion of said given file, and wherein the program instructions are further computer-executable to:

suspending computing a compressed size of said given ordered portion of said given file; and

subsequent to said suspending, resuming computing said compressed size of said given ordered portion of said given file without recomputing a compressed size of a lower-ordered portion than said given ordered portion of said given file.

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19. The computer-accessible medium as recited in claim 17, wherein a given respective compression dictionary corresponding to a higher-ordered portion of said given file includes a given respective compression dictionary corresponding to a lower-ordered portion.

20. The computer-accessible medium as recited in claim 17, wherein the program instructions are further computer-executable to:

detect a write operation to a given ordered portion of said given file;
in response to detecting said write operation, invalidate the respective
compression dictionaries corresponding to said given ordered portion and
any higher-ordered portions than said given ordered portion of said given
file; and

subsequent to said invalidating, recompute a respective compressed size of only said given ordered portion and any higher-ordered portions than said given ordered portion of said given file.

21. The computer-accessible medium as recited in claim 15, wherein the program instructions are further computer-executable to:

store a respective compressed size of each of said plurality of files in a corresponding one of a plurality of respective named streams; append a first file to a second file to yield a concatenated file; subsequent to said appending, compute a compressed size of said concatenated file; and

determine a value of a file harmony metric from said compressed size of said concatenated file and said stored respective compressed sizes of said first file and said second file.

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